

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: 126P115

Luminaire Tested: **2GC-3U1-5/8PB1S-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 126P115
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-3U1-5/8PB1S-PAF
Description: 2 X 2 Recessed Convertible Body Luminaire with a specular
silver injection molded parabolic louver .5" x .5" x .5"
Light Source: Three - FBO31/35K - 2750 Lumens ea. - 31 Watts ea.
Ballast/Driver: Advance REL-2P32-RH-TP, REL-1P32-RH-TP Electronic

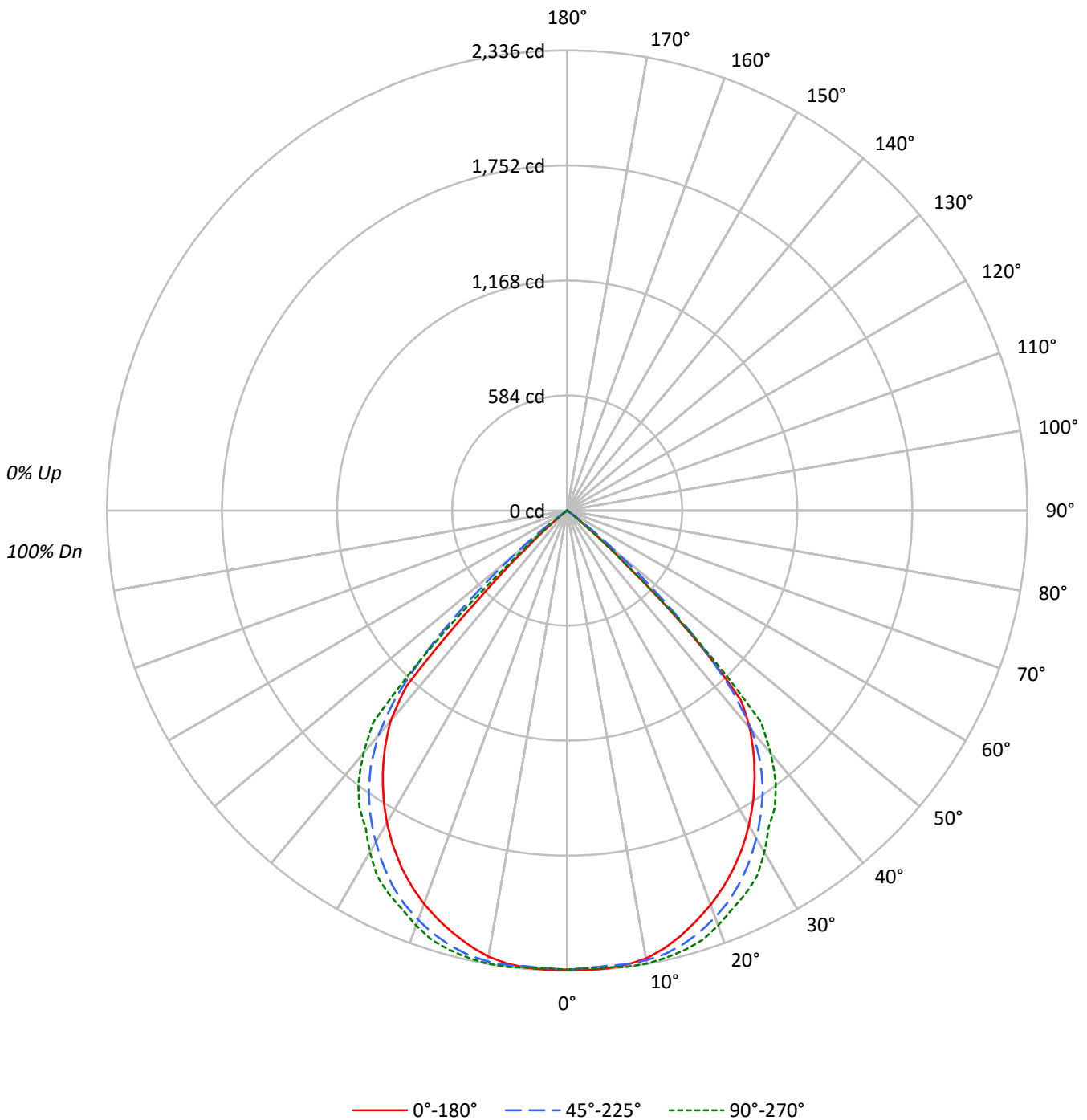
Summary

Lumens per Lamp: 2750 (3 lamps)
Luminaire Lumens: 3627.6 lumens
Efficiency: 44.0%
Efficacy: 45.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.24
Luminous Opening: Rectangular (W 1.78' x L: 1.81' x H: 0')
CIE Type: Direct

Input Watts (W): 79.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	52	52	52	52	51	51	51	51	49	49	49	47	47	47	45	45	45	44
1	50	48	47	46	48	47	46	45	45	45	44	44	43	43	42	42	41	40
2	47	44	42	41	46	44	42	40	42	41	39	41	40	38	40	39	38	37
3	44	41	38	36	43	40	38	36	39	37	35	38	36	35	37	35	34	33
4	41	37	35	33	40	37	34	32	36	34	32	35	33	32	34	33	31	30
5	39	34	32	29	38	34	31	29	33	31	29	32	30	29	32	30	28	28
6	36	32	29	27	36	31	29	27	31	28	26	30	28	26	29	28	26	25
7	34	29	26	24	33	29	26	24	29	26	24	28	26	24	27	25	24	23
8	32	27	24	22	31	27	24	22	26	24	22	26	24	22	26	23	22	21
9	30	25	22	20	30	25	22	20	25	22	20	24	22	20	24	22	20	19
10	28	24	21	19	28	23	21	19	23	20	19	23	20	19	22	20	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	7771	7771	7771
5°	7808	7794	7798
10°	7817	7905	7783
15°	7707	7970	7673
20°	7557	7951	7536
25°	7365	7891	7335
30°	7103	7711	7041
35°	6752	7485	6642
40°	6276	6994	6071
45°	4276	4503	2966
50°	757	716	425
55°	35	29	23
60°	33	27	27
65°	32	32	24
70°	29	19	19
75°	26	13	26
80°	19	19	38
85°	38	38	38



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	221.9	6.1	2.7	0°	2331	2331	2331	2331	2331	
10°-20°	641.4	17.7	7.8	5°	2333	2320	2329	2323	2330	222
20°-30°	957.5	26.4	11.6	15°	2233	2278	2309	2287	2223	629
30°-40°	1083.3	29.9	13.1	25°	2002	2080	2145	2099	1994	920
40°-50°	677.9	18.7	8.2	35°	1659	1732	1839	1756	1632	1034
50°-60°	39.4	1.1	0.5	45°	907	941	955	1001	629	645
60°-70°	3.2	0.1	0.0	55°	6	30	5	37	4	25
70°-80°	1.8	0.1	0.0	65°	4	3	4	3	3	4
80°-90°	1.0	0.0	0.0	75°	2	1	1	2	2	2
90°-100°	0.0	0.0	0.0	85°	1	1	1	1	1	1
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	0
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	1820.9	50.2	22.1	165°	0	0	0	0	0	0
0°-40°	2904.2	80.1	35.2	175°	0	0	0	0	0	0
0°-60°	3621.5	99.8	43.9	180°	0	0	0	0	0	0
0°-90°	3627.6	100.0	44.0							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	3627.6	100.0	44.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2331	2331	2331	2331	2331	2331	2331	2331	2331
2.5°	2334	2327	2324	2328	2326	2327	2326	2329	2333
5°	2333	2321	2320	2328	2329	2327	2323	2326	2330
7.5°	2325	2312	2322	2335	2336	2334	2327	2319	2320
10°	2309	2297	2318	2334	2335	2335	2324	2305	2299
12.5°	2276	2271	2305	2322	2325	2326	2311	2281	2265
15°	2233	2234	2278	2308	2309	2312	2287	2247	2223
17.5°	2183	2191	2242	2284	2285	2289	2253	2206	2177
20°	2130	2142	2197	2245	2241	2250	2211	2160	2124
22.5°	2069	2087	2145	2192	2190	2198	2161	2107	2063
25°	2002	2022	2080	2132	2145	2140	2099	2045	1994
27.5°	1928	1952	2005	2070	2089	2079	2025	1974	1915
30°	1845	1870	1921	1994	2003	2006	1943	1894	1829
32.5°	1756	1778	1830	1892	1905	1908	1854	1804	1735
35°	1659	1677	1732	1779	1839	1794	1756	1703	1632
37.5°	1555	1564	1612	1689	1740	1707	1637	1592	1520
40°	1442	1427	1462	1551	1607	1573	1492	1458	1395
42.5°	1307	1190	1242	1305	1456	1342	1289	1244	1206
45°	907	863	941	980	955	1019	1001	937	629
47.5°	403	435	601	521	404	558	660	516	261
50°	146	153	316	177	138	194	358	182	82
52.5°	30	35	115	44	24	49	139	48	8
55°	6	8	30	7	5	7	37	7	4
57.5°	6	5	7	5	5	5	9	4	4
60°	5	4	4	4	4	4	4	4	4
62.5°	4	4	3	4	4	4	4	3	4
65°	4	3	3	3	4	3	3	3	3
67.5°	3	3	2	3	3	3	3	3	2
70°	3	3	2	2	2	3	3	2	2
72.5°	2	2	2	2	2	2	2	2	2
75°	2	2	1	2	1	2	2	2	2
77.5°	1	2	1	1	1	1	2	2	1
80°	1	2	1	1	1	1	1	2	2
82.5°	2	1	1	1	1	1	1	1	1
85°	1	1	1	1	1	1	1	1	1
87.5°	1	1	1	1	1	1	1	1	1
90°	0	0	0	0	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0

(END OF REPORT)